

SEQUENCE LISTING



<110> KANEKA CORPORATION

<120> Stereostructure of Decarbamylase and Uses Thereof

<130> 12178/2

<140> 10/070,480

<141> 2002-02-28

<150> PCT/JP00/05901

<151> 2000-08-30

<150> 11-246797JP

<151> 1999-08-31

<160> 2

<170> PatentIn Ver. 2.1

<210> 1

<211> 303

<212> PRT

<213> Agrobacterium sp.

<400> 1

Thr	Arg	Gln	Met	Ile	Leu	Ala	Val	Gly	Gln	Gln	Gly	Pro	Ile	Ala	Arg
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Ala	Glu	Thr	Arg	Glu	Gln	Val	Val	Val	Arg	Leu	Leu	Asp	Met	Leu	Thr
			20						25					30	

Lys	Ala	Ala	Ser	Arg	Gly	Ala	Asn	Phe	Ile	Val	Phe	Pro	Glu	Leu	Ala
			35				40						45		

Leu	Thr	Thr	Phe	Phe	Pro	Arg	Trp	His	Phe	Thr	Asp	Glu	Ala	Glu	Leu
	50						55					60			

Asp	Ser	Phe	Tyr	Glu	Thr	Glu	Met	Pro	Gly	Pro	Val	Val	Arg	Pro	Leu
	65					70				75					80

Phe	Glu	Lys	Ala	Ala	Glu	Leu	Gly	Ile	Gly	Phe	Asn	Leu	Gly	Tyr	Ala
					85									90	95

Glu	Leu	Val	Val	Glu	Gly	Gly	Val	Lys	Arg	Arg	Phe	Asn	Thr	Ser	Ile
				100				105							110

Leu Val Asp Lys Ser Gly Lys Ile Val Gly Lys Tyr Arg Lys Ile His
115 120 125

Leu Pro Gly His Lys Glu Tyr Glu Ala Tyr Arg Pro Phe Gln His Leu
130 135 140

Glu Lys Arg Tyr Phe Glu Pro Gly Asp Leu Gly Phe Pro Val Tyr Asp
145 150 155 160

Val Asp Ala Ala Lys Met Gly Met Phe Ile Cys Asn Asp Arg Arg Trp
165 170 175

Pro Glu Ala Trp Arg Val Met Gly Leu Arg Gly Ala Glu Ile Ile Cys
180 185 190

Gly Gly Tyr Asn Thr Pro Thr His Asn Pro Pro Val Pro Gln His Asp
195 200 205

His Leu Thr Ser Phe His His Leu Leu Ser Met Gln Ala Gly Ser Tyr
210 215 220

Gln Asn Gly Ala Trp Ser Ala Ala Ala Gly Lys Val Gly Met Glu Glu
225 230 235 240

Asn Cys Met Leu Leu Gly His Ser Cys Ile Val Ala Pro Thr Gly Glu
245 250 255

Ile Val Ala Leu Thr Thr Thr Leu Glu Asp Glu Val Ile Thr Ala Ala
260 265 270

Val Asp Leu Asp Arg Cys Arg Glu Leu Arg Glu His Ile Phe Asn Phe
275 280 285

Lys Gln His Arg Gln Pro Gln His Tyr Gly Leu Ile Ala Glu Leu
290 295 300

<210> 2

<211> 303

<212> PRT

<213> E.coli

<400> 2

Thr Arg Gln Met Ile Leu Ala Val Gly Gln Gln Gly Pro Ile Ala Arg
1 5 10 15

Ala Glu Thr Arg Glu Gln Val Val Val Arg Leu Leu Asp Met Leu Thr
20 25 30

Lys Ala Ala Ser Arg Gly Ala Asn Phe Ile Val Phe Pro Glu Leu Ala
 35 40 45
 Leu Thr Thr Phe Phe Pro Arg Trp Tyr Phe Thr Asp Glu Ala Glu Leu
 50 55 60
 Asp Ser Phe Tyr Glu Thr Glu Met Pro Gly Pro Val Val Arg Pro Leu
 65 70 75 80
 Phe Glu Lys Ala Ala Glu Leu Gly Ile Gly Phe Asn Leu Gly Tyr Ala
 85 90 95
 Glu Leu Val Val Glu Gly Gly Val Lys Arg Arg Phe Asn Thr Ser Ile
 100 105 110
 Leu Val Asp Lys Ser Gly Lys Ile Val Gly Lys Tyr Arg Lys Ile His
 115 120 125
 Leu Pro Gly His Lys Glu Tyr Glu Ala Tyr Arg Pro Phe Gln His Leu
 130 135 140
 Glu Lys Arg Tyr Phe Glu Pro Gly Asp Leu Gly Phe Pro Val Tyr Asp
 145 150 155 160
 Val Asp Ala Ala Lys Met Gly Met Phe Ile Cys Asn Asp Arg Arg Trp
 165 170 175
 Pro Glu Ala Trp Arg Val Met Gly Leu Arg Gly Ala Glu Ile Ile Cys
 180 185 190
 Gly Gly Tyr Asn Thr Pro Thr His Asn Pro Glu Val Pro Gln His Asp
 195 200 205
 His Leu Thr Ser Phe His His Leu Leu Ser Met Gln Ala Gly Ser Tyr
 210 215 220
 Gln Asn Gly Ala Trp Ser Ala Ala Ala Gly Lys Ala Gly Met Glu Glu
 225 230 235 240
 Asn Cys Met Leu Leu Gly His Ser Cys Ile Val Ala Pro Thr Gly Glu
 245 250 255
 Ile Val Ala Leu Thr Thr Thr Leu Glu Asp Glu Val Ile Thr Ala Ala
 260 265 270
 Val Asp Leu Asp Arg Cys Arg Glu Leu Arg Glu His Ile Phe Asn Phe
 275 280 285

Lys Gln His Arg Gln Pro Gln His Tyr Gly Leu Ile Ala Glu Leu
 290 295 300